

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION, DEPARTMENT OF PARK AND PLANNING

MNCPPC PERMIT NO. 2020-034

PARK J33

REVIEWED BY Brian Lewandowski

APPROVED BY [Signature]  
CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

**THIS IS NOT A PERMIT TO BEGIN CONSTRUCTION**

This approval is for technical review only. For permit information, contact Jay Childs, Construction Supervisor at (301) 495-2374.

SHT.NO.	DWG.NO.	SC/SWM NO.	DWG. DESCRIPTION
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03	GN-03		GENERAL NOTES
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06-08	GG-01-03		GEOMETRICS
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19-21	DD-01-03	02-03	DRAINAGE DETAILS
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MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
MAINTENANCE CERTIFICATION

I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE FOR SUCH IMPROVEMENTS.

12/22/2021

DATE

[Signature]

Digitally signed by Timothy H. Cupples  
Cupples  
Date: 2021.12.22  
15:18:27-05'00'

TIMOTHY CUPPLES, P.E.  
CHIEF, DIVISION OF  
TRANSPORTATION ENGINEERING

OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

12/22/2021

DATE

[Signature]

Digitally signed by Timothy H. Cupples  
Cupples  
Date: 2021.12.22 15:18:41-05'00'

TIMOTHY CUPPLES, P.E.  
CHIEF, DIVISION OF  
TRANSPORTATION ENGINEERING

DRAINAGE STATEMENT

I UNDERSTAND THAT DPS APPROVAL OF THIS SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH REQUIRED ENVIRONMENTAL RUNOFF TREATMENT STANDARDS. THIS DPS SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN APPROVAL DOES NOT RELIEVE ME OF PROFESSIONAL RESPONSIBILITY. I HAVE ANALYZED THE PROPOSED DESIGN FOR SEDIMENT CONTROL PERMIT NO. 286661 AND HEREBY STATE THAT, BASED UPON MY BACKGROUND TRAINING AND EXPERIENCE, I HAVE DETERMINED THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN MEET RELEVANT LAWS AND REGULATIONS. I FURTHER ACKNOWLEDGE THAT I HAVE ANALYZED THE POST DEVELOPMENT DRAINAGE PATTERNS FOR THIS PROJECT FROM THE STANDPOINT OF MY RESPONSIBILITIES UNDER CURRENT MARYLAND LAW AND HAVE DETERMINED THAT IF PERMISSION IS REQUIRED FROM ADJACENT PROPERTY OWNERS, IT HAS BEEN OBTAINED AND COPIES OF THOSE PERMISSIONS HAVE BEEN MADE AVAILABLE TO DPS.

1/4/2022

DATE

[Signature]

KEVIN SCHIEFER, P.E.  
MD. REGISTRATION NO. 43192

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL," MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN CRITERIA" DATED AUGUST, 1988.

12/10/2021

DATE

[Signature]

MICHAEL ROTHENHEBER, P.E.  
MD. REGISTRATION NO. 18589

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO 2,895 CUBIC YARDS OF EXCAVATION, 1,521 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 170,479 SQUARE FEET OR 3.91 ACRES.

12/10/2021

DATE

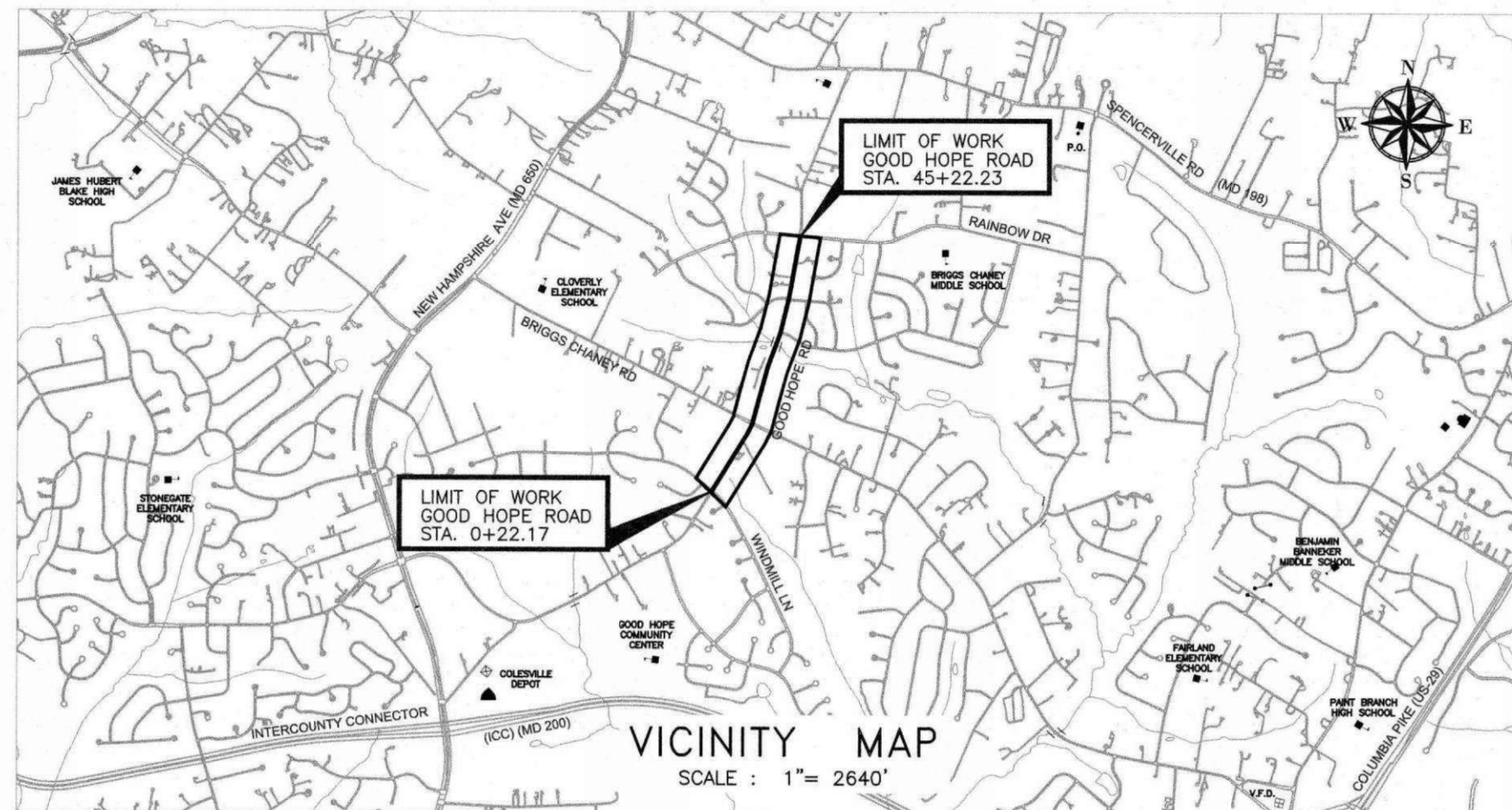
[Signature]

MICHAEL ROTHENHEBER, P.E.  
MD. REGISTRATION NO. 18589

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GOOD HOPE ROAD  
SHARED USE PATH  
WINDMILL LANE TO  
RAINBOW DRIVE

C. I. P. PROJECT NO. 501902

PS&E DESIGN SUBMISSION



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 18589 EXPIRATION DATE 02/10/2022

12/10/2021

DATE

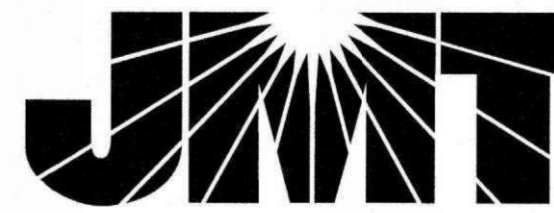
[Signature]

MICHAEL ROTHENHEBER, P.E.  
MD. REGISTRATION NO. 18589



OWNER/ADDRESS:  
MONTGOMERY COUNTY DEPARTMENT  
OF TRANSPORTATION  
101 MONROE STREET, 10TH FLOOR  
ROCKVILLE, MD 20850

CONTACT:  
REBECCA PARK, P.E.  
PROJECT MANAGER  
DESIGN SECTION  
DIVISION OF TRANSPORTATION ENGINEERING  
240-777-7263



**ATTENTION**

THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE UPPER PAINT BRANCH SPECIAL PROTECTION AREA TO HELP PROTECT THE DELICATE AQUATIC HABITAT FROM THE IMPACTS OF LAND DEVELOPMENT THESE PLANS MUST BE STRICTLY ADHERED TO

IF THERE IS A PROBLEM CALL  
LEO GALANKO AT 240-777-6242

AND THE MCDPS STAFF MEMBER WILL ASSIST YOU IN DEVELOPING A SOLUTION BEFORE STREAM IMPACTS OCCUR (MENTION THAT THE SITE IS WITHIN A SPECIAL PROTECTION AREA WHEN YOU CALL)

"LET'S WORK TOGETHER TO KEEP IT CLEAN"

ACKNOWLEDGED MONTGOMERY COUNTY DEPT. OF TRANSPORTATION OWNER/DEVELOPER  
LOD IN SPA = 3.91 AC.

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.
Leo M. Galanko 2/23/2022 REVIEWED DATE	Leo M. Galanko 2/23/2022 REVIEWED DATE	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	
Leo M. Galanko 2/23/2022 REVIEWED DATE	N/A: <input checked="" type="checkbox"/> OR REVIEWED DATE	
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.

286661
SEDIMENT CONTROL PERMIT NO.
#285258
SM. FILE NO.
STORMWATER MANAGEMENT:
Bioswale (BS-1 and BS-3)
Grass Swale (GS-2); Jellyfish Filter (JFF-2-3)

RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District	x		380923		
WATERWAYS/WETLAND(S):					
a. Corps of Engineers		x			
b. MDE	x		202060129 / 20-NT-3019	2/23/26	NO WORK IN STREAM 10/01 - 04/30
c. MDE Water Quality Certification		x			
MDE Dam Safety		x			
DNR Roadside Tree Care Permit	x		2021-0594	Approval Date 8/25/21	
DPS Roadside Tree Protection Plan		x		Approval Date	
N.P.D.E.S.	x				DATE FILED
NOTICE OF INTENT	x				5/24/21
Forest Conservation Exemption Plan	x		Approval Date	1/22/20	

JUNE 2014

THE FOLLOWING MONTGOMERY COUNTY STANDARDS ARE REQUIRED FOR THIS PROJECT:

MC-100.01 - COMBINATION CONCRETE CURB AND GUTTER - TYPE A  
MC-110.01 - RESIDENTIAL SIDEWALK  
MC-301.01 - RESIDENTIAL DRIVEWAY  
MC-504.01 - E INLET  
MC-505.01 - E-4 INLET  
MC-506.01 - J INLET  
MC-506.02 - J INLET AS A TERMINUS

THE MOST CURRENT VERSION OF THESE STANDARDS CAN BE ACCESSED AT:  
<https://www.montgomerycountymd.gov/dot-dte/common/standards.html>

THE FOLLOWING MARYLAND STATE HIGHWAY DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARDS (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) ARE REQUIRED FOR THIS PROJECT:

MD-368.01 - STANDARD CONCRETE END SECTION ROUND CONCRETE PIPE  
MD-383.01 - STANDARD MANHOLE  
MD-384.05 - 72" DIAMETER PRECAST MANHOLE FOR 42" TO 48" PIPES  
MD-386.11 - STANDARD JUNCTION BOX  
MD-655.40 - DETECTABLE WARNING SURFACES

FOR ALL SHA STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT:  
<http://apps.roads.maryland.gov/businesswithsha/bizstdsSpecs/desManualStdPub/publicationonline/ohd/bookstd/index.asp>

ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

TREE CANOPY REQUIREMENTS TABLE		
To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.		
Exempt: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If exempt under Section 55-5 of the Code, please check the applicable exemption category below.		
Total Property Area	Total Disturbed Area	
344,132 square feet	170,479 square feet	
Shade Trees Required	Shade Trees Proposed to be Planted	
64	64	
Fee in Lieu (Trees Required - Trees Planted) x \$250	\$ 0	
Required Number of Shade Trees		
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required	
FROM TO		
1 6,000	3	
6,001 8,000	6	
8,001 12,000	9	
12,001 14,000	12	
14,001 40,000	15	
If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:  (Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15		
EXEMPTION CATEGORIES:		
<input type="checkbox"/> 55-5(a) any activity that is subject to Article II of Chapter 22A; <input type="checkbox"/> 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A; <input type="checkbox"/> 55-5(f) any activity conducted by the County Parks Department; <input type="checkbox"/> 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the	<input type="checkbox"/> maintenance has obtained all required permits; <input type="checkbox"/> 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits; <input type="checkbox"/> 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; <input type="checkbox"/> OTHER: Specify per Section 55-5 of the Code.	

GN-01 TITLE SHEET

GOOD HOPE ROAD  
SHARED USE PATH

DATUM: NAD 83(2011) HORIZ  
NAVD 88 VERT  
DATE: DECEMBER 2021

Project No.: 501902 SHEET 01 of 135



THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

MANCPPC PERMIT NO. 2020-034

PARK J33

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CHIEF, CONSTRUCTION SECTION

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Construction Supervisor at (301) 495-2374

ABBREVIATIONS					
ABAN.	Abandoned	LOD	Limit of Disturbance	SSMH	Sewer Manhole
A.A.S.H.T.O.	American Association of State Highway Transportation Officials	LOW	Limit of Work	STA.	Station
APPROX.	Approximate	LP	Low Point	STD.	Standard
ASTM	American Society for Testing and Materials	LT	Left	SO.	Single Opening
B or B/L	Baseline	LVC	Length of Vertical Curve	S.Y.	Square Yards
BIT.	Bituminous	Maint.	Maintenance	SWM	Stormwater Management
BOA	Beginning of Alignment	MH	Manhole	SW	Sidewalk
BVCE	Beginning of Vertical Curve Elevation	MAX.	Maximum	T	Tangent
BVCS	Beginning of Vertical Curve Station	MCDPS	Montgomery County Department of Permitting Services	T or Tele.	Telephone
BLDG..	Building	MOD.	Modified	TBA	To Be Abandoned
BOT.	Bottom	MIN.	Minimum	TCE	Temporary Construction Easement
C.A.	Center of Curve	M-NCPPC	Maryland-National Capital Park and Planning Commission		
C or C/L	Centerline	N	North	T.C.P.	Terra Cotta Pipe
C.I.P.	Cast Iron Pipe	NAD	North American Datum	TPF	Tree Protection Fence
C.M.P.	Corrugated Metal Pipe	NAVD	North American Vertical Datum	T.S.	Top of Structure Elevation
C.O.	Cleanout	NB	Northbound	TRAV.	Traverse
COMB.	Combination	NE	Northeast	TYP.	Typical
CONC.	Concrete	NO.	Number	UG	Underground
CONSTR.	Construction	N.T.S. or NTS	Not To Scale	UNK.	Unknown
CPI	Curve Point of Intersection	O.C.	On Center	U.P.	Utility Pole
C.P.P.	Corrugated Polyethylene Pipe	PVMT.	Pavement	VAR.	Varies
CRZ	Critical Root Zone	PED.	Pedestrian	V.C.L.	Vertical Curve Length
D.B.H.	Diameter Breast Height	P.C.	Point of Curvature	W	Water
DC	Degree of Curve	P.C.C.	Point of Compound Curve	W	West
DIA.	Diameter	P/C	Point of Crown	W.B. or WB	Westbound
D.O.T. or DOT	Department Of Transportation	P/C	Point of Crown	WHC	Water House Connection
D.P.W. or DPW	Department of Public Works	PE	Perpetual Easement	WM	Water Meter
D.H.V.	Design Hour Volume	PGA	Point of Grade Application	WSSC	Washington Suburban Sanitary Commission
DWS	Detectable Warning Surface	P/GE	Profile Grade Elevation	W/O	Without
D.I.	Drop Inlet	P.G.E.	Profile Ground Elevation	YR	Year
D.I.	Ductile Iron	P/G.L.	Profile Grade Line		
D.O.	Double Opening	P/GL	Profile Ground Line		
E	East	P/R	Point of Rotation		
Elec.	Electric	P.I.	Point of Intersection		
EA	Each	P.O.C.	Point on Curve		
E.B.	Eastbound	P.O.T.	Point on Tangent		
EB	Electric Box	PROP.	Proposed		
EM	Electric Meter	P.S.F.	Pounds per Square Foot		
ELEV. or EL..	Elevation	PT.	Point		
E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe	P.T.	Point of Tangency		
ES	End Section	P.V.C.	Point of Vertical Curve		
EVCE	End of Vertical Curve Elevation	PVC	Polyvinyl Chloride		
EVCS	End of Vertical Curve Station	PVI	Point of Vertical Intersection		
EX. or EXIST.	Existing	R	Radius		
FT	Foot or Feet	RET. WALL	Retaining Wall		
F or FL	Flowline	RP	Root Pruning		
FWD	Forward	RT	Right		
G	Gas	RW or R/W	Right of Way		
GM	Gas Meter	R.C.P.	Reinforced Concrete Pipe		
Guy	Guy Wire	R.C.C.P.	Reinforced Concrete Cylinder Pipe		
HBX	Handbox	SIG.	Signal Pole		
H.D.P.E.	High-Density Polyethylene	SHA. or S.H.A.	State Highway Administration		
H.E.R.C.P.	Horizontal Elliptical Reinforced Concrete Pipe	S	South		
HGL	Hydraulic Grade Line	S or SS or SAN.	Sanitary Sewer		
HP	High Point	SB	Southbound		
HMA	Hot Mix Asphalt	S.D.	Storm Drain		
HT	Height	SDP	Shrub Deer Protection		
IN	Inch	S.E.	Superelevation		
INV	Invert	SF	Silt Fence		
L	Length	SFOP	Silt Fence On Pavement		
LANDSC.	Landscaped	SF	Square Feet		
L.F.	Linear Feet	SHC	Sewer House Connection		
		SSD	Stopping Sight Distance		
		SSF	Super Silt Fence		

LEGEND			
	ELECTRIC BOX		SPOT ELEVATION
	ELECTRIC MANHOLE		WIRE FENCE / CHAIN LINK FENCE
	ELECTRIC METER		INDEX CONTOUR
	HANDBOX		INTERVAL CONTOUR
	CLEAN OUT		OVERHEAD WIRES
	MAIL BOX		ABANDONED GAS LINE
	GAS MANHOLE		EXISTING GAS
	GAS METER		EXISTING ELECTRIC
	GAS VALVE		EXISTING TELEPHONE
	WATER MANHOLE		EXISTING SANITARY SEWER
	WATER VALVE		EXISTING CABLE TV
	WATER METER		EXISTING FIRE LINE
	FIRE HYDRANT		EXISTING FIBER OPTIC
	SANITARY MANHOLE		EXISTING WATER
	STORM DRAIN MANHOLE		PROPERTY LINE
	TELEPHONE MANHOLE		EXISTING RIGHT OF WAY
	TELEPHONE RISER		TOE OF FILL
	TV (CABLE) RISER		TOP OF CUT
	UNKNOWN MANHOLE		LIMIT OF DISTURBANCE
	SIGN		TEMPORARY CONSTRUCTION EASEMENT
	TREE		REVERTIBLE SLOPE EASEMENT
	HEDGE/BUSHES		PERPETUAL EASEMENT
	TRAVERSE POINT		WOODEN RAILING / WOOD FENCE
	DETECTABLE WARNING SURFACE (DWS)		CURB AND GUTTER
	EXISTING LIGHT POLE		GUARDRAIL
	EXISTING UTILITY POLE		
	EXISTING GUY WIRE		
	EXISTING UTILITY POLE WITH PROPOSED LEASE LIGHT		
	PROPOSED PEDESTRIAN LIGHT POLE		
	PROPOSED UTILITY POLE		
	PROPOSED UTILITY POLE WITH PROPOSED LEASE LIGHT		
	PROPOSED SIGNAL POLE		

DRAINAGE BUBBLES	
INLET	
MANHOLE	
JUNCTION BOX	
FIELD CONNECTION	
ENDWALL	
END SECTION	
CLEANOUT	



THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

M-NCPPC PERMIT NO. **2020-034**

PARK **J33**

REVIEWED BY **Brian Lewandowski**

APPROVED BY   
CHIEF, CONSTRUCTION SECTION

DATE APPROVED **12/14/2021**

THIS IS NOT A PERMIT TO  
BEGIN CONSTRUCTION

This approval is for technical review only.  
For permit information, contact Jay Childs,  
Construction Supervisor at (301) 495-2574

GENERAL NOTES

1.

THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2021, ALL ERRATA AND ADDENDA THERETO, THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2.

FOR CONSTRUCTION, ALL HORIZONTAL SHALL BE BASED ON NAD 83/91, NAVD 88 DATUM.
3.

TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
4.

WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
5.

ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
6.

THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
7.

INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
8.

REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
9.

CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
10.

CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
11.

ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
12.

ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS SHALL BE SEEDED AND MULCHED.
13.

THE CONTRACTOR SHALL MAINTAIN THE APPROVED ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060
14.

THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
15.

ALL UTILITY POLES AND GUY WIRES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
16.

CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF W.S.S.C. CALL 301-699-4420
17.

THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
18.

THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD UTILITY WIRES EXIST WITHIN THE PROJECT SITE. LOCATIONS OF WIRES SHOULD BE NOTED IN FIELD WITH SIGNAGE TO AVOID CONFLICTS DURING CONSTRUCTION.
19.

CONTRACTOR SHALL TAKE EXTRA PRECAUTION WHERE THE CONSTRUCTION ACTIVITIES AND EXCAVATIONS WILL BE PERFORMED WITHIN 5 FEET OF THE EXISTING WASHINGTON GAS FACILITIES AND PIPELINES. IT IS RECOMMENDED THAT FIELD VERIFICATIONS OF THE EXISTING WASHINGTON GAS FACILITIES SHOULD BE PERFORMED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY WASHINGTON GAS AT (703) 750-1000 TO SCHEDULE PERSONNEL FOR DAMAGE PREVENTION 10 BUSINESS DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY EXPOSURE OF THE EXISTING GAS MAINS DURING THE CONSTRUCTION SHALL BE PERFORMED UNDER SUPERVISION OF ONSITE WASHINGTON GAS PERSONNEL(S). ALL EXPOSED GAS MAINS SHALL BE PROTECTED BY A WGL APPROVED PROTECTIVE SHIELD.
20.

CONTRACTOR TO PERFORM TEST PITS ON EXISTING WASHINGTON GAS FACILITIES AT THE ONSET OF ROADWAY CONSTRUCTION. INFORMATION GATHERED FROM THE TEST PITS (LOCATION AND ELEVATION OF FACILITY AT EACH TEST PIT) MUST BE PROVIDED TO WASHINGTON GAS PRIOR TO ANY ADDITIONAL CONSTRUCTION ACTIVITIES WITHIN 5 FEET HORIZONTAL CLEARANCE OF EXISTING WASHINGTON GAS FACILITIES. WASHINGTON GAS WILL REVIEW THE INFORMATION PROVIDED TO DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO AVOID CONFLICT WITH THEIR EXISTING FACILITIES.
21.

FOR ALL LOCATIONS WHERE PROPOSED FACILITIES CROSS OVER/UNDER EXISTING WASHINGTON GAS FACILITIES SMALLER THAN 16-INCHES IN DIAMETER, THE CONTRACTOR MUST MAINTAIN A MINIMUM 12-INCH VERTICAL SEPARATION BETWEEN THE OUTER EDGE OF THE PROPOSED FACILITY AND THE OUTER EDGE OF THE EXISTING WASHINGTON GAS FACILITY.
22.

FOR ALL LOCATIONS WHERE PROPOSED FACILITIES CROSS OVER/UNDER EXISTING WASHINGTON GAS FACILITIES THAT ARE 16-INCHES OR LARGER IN DIAMETER, THE CONTRACTOR MUST MAINTAIN A MINIMUM 24-INCHVERTICAL SEPARATION BETWEEN THE OUTER EDGE OF THE PROPOSED FACILITY AND THE OUTER EDGE OF THE EXISTING WASHINGTON GAS FACILITY.

GENERAL NOTES FOR WORK ON M-NCPPC PROPERTY

1.

ALL NOTES SHOWN ON THE DRAWINGS ARE TYPICAL UNLESS OTHERWISE SHOWN OR NOTED.
2.

A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED BY THE M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF ANY CONSTRUCTION RELATED ACTIVITY AT THE PROJECT SITE. CONTACT JAY CHILDS (301-495-2574) TO SCHEDULE.
3.

NO CLEARING, GRUBBING, OR GRADING SHALL COMMENCE UNTIL THE LIMITS OF DISTURBANCE ARE STAKED IN THE FIELD AND ARE APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER AS WELL AS ANY OTHER APPLICABLE PERMITTING AGENCIES. AFTER THE LIMITS ARE APPROVED, NO DISTURBANCE WILL BE ALLOWED OUTSIDE OF THE APPROVED LIMITS. ANY ITEMS DISTURBED OUTSIDE OF THE APPROVED LIMITS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4.

THE ENTIRE LOD SHALL BE FENCED AS DIRECTED BY THE PARK CONSTRUCTION MANAGER. WHERE SILT FENCE, SUPER SILT FENCE, OR TREE PROTECTION FENCE IS NOT REQUIRED, ORANGE BLAZE SAFETY FENCE MAY BE USED.
5.

FIELD RUN TOPOGRAPHIC SURVEY PROVIDED BY JMT IN NOVEMBER 2015. SURVEY COORDINATES ARE REFERENCED TO THE MARYLAND STATE PLAN COORDINATE SYSTEM NAD 83(2011). ELEVATIONS ARE REFERENCED TO THE NORTHERN AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BOUNDARIES SHOWN ARE DERIVED FROM DEED AND PLAT INFORMATION.
6.

M-NCPPC RESERVES THE RIGHT TO ADJUST AND MODIFY THE LIMITS OF DISTURBANCE IN THE FIELD TO MINIMIZE IMPACTS OF WORK.
7.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE FACILITY ACCESS THROUGHOUT CONSTRUCTION AND PROVIDE ANY APPROPRIATE DETOURS, TEMPORARY FACILITIES, AND SIGNAGE AS REQUESTED BY THE M-NCPPC CONSTRUCTION MANAGER.
8.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AND REPORT TO M-NCPPC CONSTRUCTION MANAGER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD BEFORE COMMENCING WORK.
9.

THE CONTRACTOR SHALL STAKE-OUT THE LOCATION OF FACILITIES AND MEET WITH THE M-NCPPC CONSTRUCTION MANAGER TO REVIEW THE LOCATION. M-NCPPC RESERVES THE RIGHT TO ADJUST THE LOCATIONS AS NECESSARY.
10.

SITE RESTORATION AND REPAIR/REPLACEMENT OF DAMAGED INFRASTRUCTURE SHALL BE IN ACCORDANCE WITH M-NCPPC DETAILS, STANDARDS, AND SPECIFICATIONS AT THE DIRECTION OF THE PARK INSPECTOR AT NO COST TO M-NCPPC.
11.

TREE PROTECTION FENCING SHALL BE PER TREE PROTECTION FENCE DETAIL SHOWN ON PLANS. TREE PROTECTION FENCE SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY M-NCPPC CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH M-NCPPC CONSTRUCTION MANAGER AND M-NCPPC URBAN FORESTER PRIOR TO PLACEMENT OF ALL TREE PROTECTION.
12.

ALL PLANTING SUBSTITUTIONS SHALL BE APPROVED BY M-NCPPC CONSTRUCTION MANAGER. PLANT MATERIALS AND LOCATIONS MUST BE INSPECTED BY M-NCPPC PRIOR TO INSTALLATION.
13.

PROVIDE DEER PROTECTION FENCING PER M-NCPPC SPECIFICATIONS FOR ALL LANDSCAPE AND REFORESTATION TREES AND SHRUBS TO PREVENT DAMAGE FROM DEER. TUBEX SHALL NOT BE USED AS A SUBSTITUTE.
14.

STAGING AREAS AND ACCESS ROUTES SHALL BE DETERMINED IN FIELD AND APPROVED BY THE M-NCPPC CONSTRUCTION MANAGER TO MINIMIZE IMPACTS.
15.

M-NCPPC MAY INSPECT CONDITION OF TREES THROUGHOUT CONSTRUCTION AND REQUIRE REPAIR, REMOVAL, AND/OR REPLACEMENT OF ANY DAMAGED TREES AT NO COST TO M-NCPPC.
16.

CONSTRUCTION MANAGER MAY AUTHORIZE SPECIAL TREE AND TREE ROOT PROTECTION MEASURES OTHER THAN SHOWN ON THESE PLANS DURING CONSTRUCTION. THESE MAY INCLUDE, BUT NOT BE LIMITED TO 12-INCH THICK MULCH LAYER ACCESS BEDDING, MATTING, ADDITIONAL TREE PROTECTION FENCING, AND ADDITIONAL SEDIMENT CONTROLS.
17.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IDENTIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF THE CONSTRUCTION RELATED WORK AND SHALL COORDINATE THE WORK WITH M-NCPPC CONSTRUCTION MANAGER. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN ALL EXISTING AND PROPOSED UTILITIES AT ALL TIMES AS REQUIRED BY THE UTILITY COMPANIES.
18.

UTILITIES SHOWN HEREON ARE BASED ON BEST AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF THIS INFORMATION. ANY COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DAMAGE MADE TO THE UTILITY SHALL BE REPAIRED ON AN EMERGENCY BASIS PER THE LATEST SPECIFICATIONS OF THE CONCERNED UTILITY AND COMPLETED WORK SHALL BE APPROVED BY THE CONCERNED UTILITY. ANY DAMAGE SHALL BE REPORTED AND DOCUMENTED IMMEDIATELY TO THE M-NCPPC CONSTRUCTION MANAGER. REPAIR APPROVALS SHALL BE PROVIDED TO THE M-NCPPC CONSTRUCTION MANAGER.
19.

DISCREPANCIES, OMISSION, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONSTRUCTION DOCUMENTS OR DOUBT ABOUT THEIR MEANING SHALL BE BROUGHT TO THE ATTENTION OF THE M-NCPPC CONSTRUCTION MANAGER FOR DIRECTION BEFORE PROCEEDING WITH WORK. IF CONFLICTS EXIST, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE STATED IN WRITING BY THE M-NCPPC CONSTRUCTION MANAGER.
20.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL." IF ON-SITE MATERIALS DO NOT MEET REQUIREMENTS OF TOPSOIL, COORDINATE WITH M-NCPPC REGARDING TILLING-IN OF CERTIFIED COMPOST TO ON-SITE SOILS IN ORDER TO MEET SPECIFICATIONS.
21.

PAVEMENT REMOVAL SHALL INCLUDE REMOVAL OF GRAVEL SUBBASE AND SCARIFICATION OF SUBGRADE, UNLESS OTHERWISE DIRECTED BY M-NCPPC.
22.

THIS SITE IS LOCATED IN THE ANACOSTIA RIVER WATERSHED OF MONTGOMERY COUNTY. RUNOFF FROM THIS SITE DRAINS INTO THE PAINT BRANCH TRIBUTARY.
23.

NEITHER METAL SOD STAKES NOR TURF REINFORCEMENT MATTING WITH PLASTIC ARE PERMITTED ON PARK LAND.
24.

CONSTRUCTION STAGING AREAS SHALL NOT BE ESTABLISHED ON M-NCPPC OWNED PROPERTY.

EARTHWORK SUMMARY

CLASS I EXCAVATION

CUT (FROM CROSS SECTIONS)	1,507	CY
TOPSOIL UNDER FILL	—	CY
ROOT MAT UNDER FILL	—	CY
PLUS CUT (FROM SWM AREA)	720	CY
TOTAL CLASS I EXCAVATION	2,227	CY

2,227 CY

CLASS 1A EXCAVATION (ESTIMATED)

MUCK REMOVAL (IF ANY)	—	CY
UNDERCUTTING	—	CY
TOTAL CLASS 1A EXCAVATION	—	CY

— CY

CLASS 2 EXCAVATION

CUT (FROM CROSS SECTIONS)	189	CY
TOTAL CLASS 2 EXCAVATION	189	CY

189 CY

CLASS 3 EXCAVATION

CUT (STRUCTURE EXCAVATION)	479	CY
TOTAL CLASS 3 EXCAVATION	479	CY

479 CY

EXCAVATION AVAILABLE FOR EMBANKMENT

TOTAL CLASS I EXCAVATION + CLASS 2 EXCAVATION	2,416	CY
MINUS:		
TOPSOIL (REMOVED IN CUT)	—	CY
TOPSOIL (REMOVED UNDER FILL)	—	CY
ROOT MAT (REMOVED IN CUT)	—	CY
ROOT MAT (REMOVED IN FILL)	—	CY
CUT ADJUSTED	2,416	CY
CUT DENSIFIED (x 0.83)	2,005	CY
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	2,005	CY

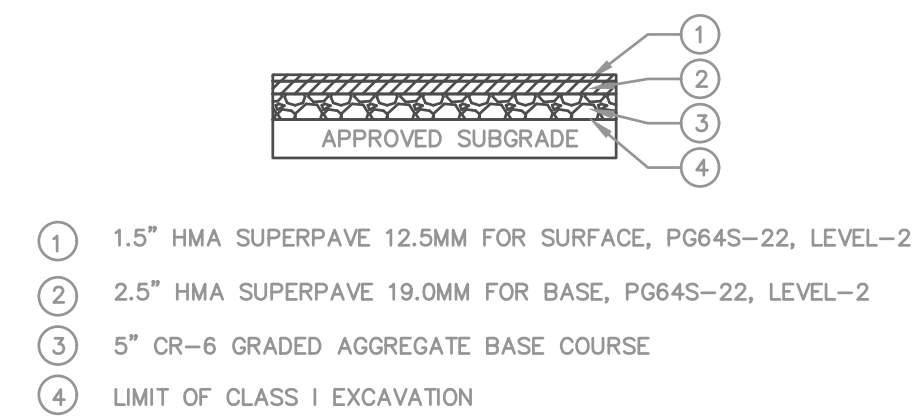
EMBANKMENT REQUIRED

FILL (FROM CROSS SECTIONS)	625	CY
REFILL FOR TOPSOIL UNDER FILL	—	CY
REFILL FOR ROOT MAT UNDER FILL	—	CY
FILL (FROM SWM AREA)	417	CY
TOTAL	1,042	CY
MINUS EXCAVATION AVAILABLE FOR EMBANKMENT	(2,005)	CY
ADJUSTED TOTAL	(963)	CY
PLUS DENSIFICATION FACTOR (x 1.20)	(1,156)	CY
MINUS SELECT BORROW	(479)	CY
COMMON BORROW	(1,635)	CY
SELECT BORROW	479	CY

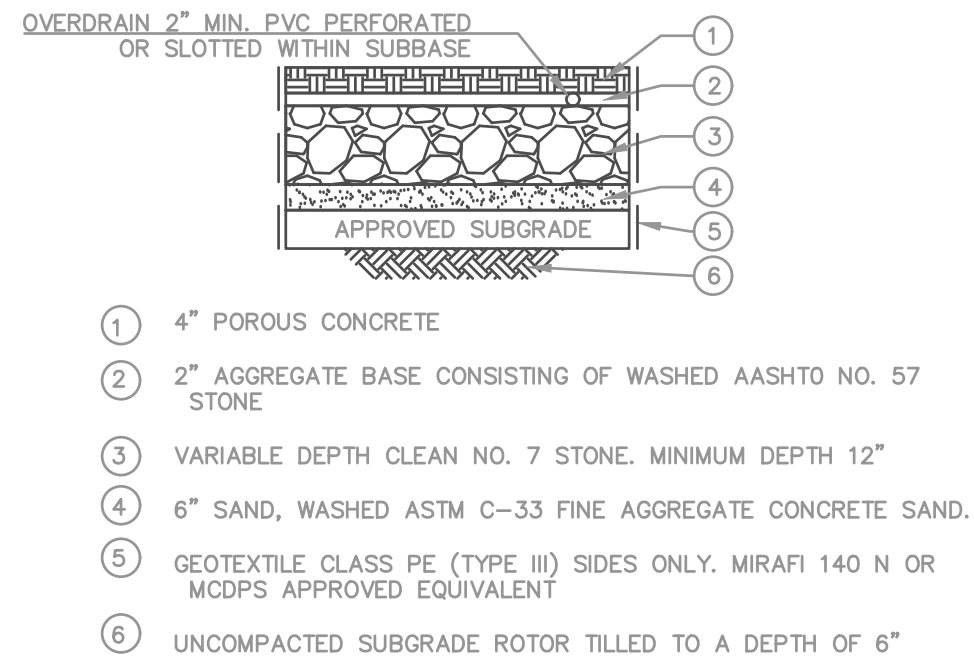
0 CY

479 CY

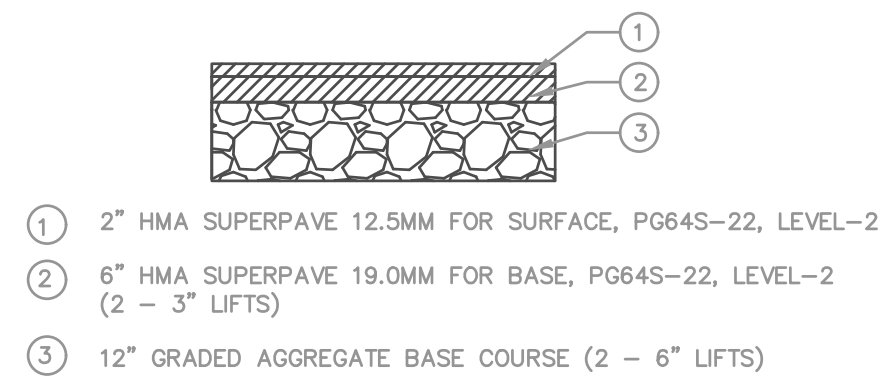




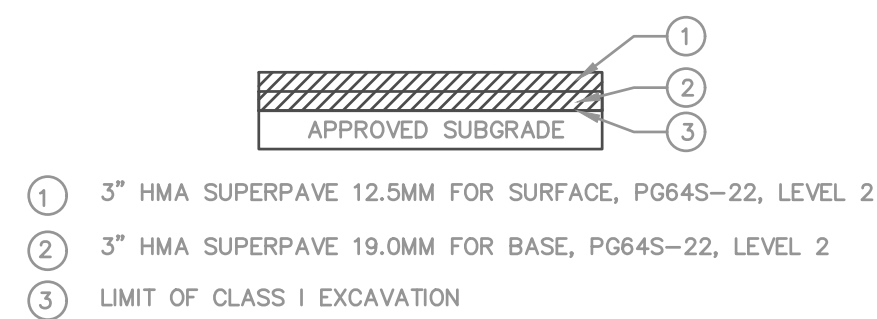
IMPERVIOUS TRAIL (ASPHALT) DETAIL  
NTS



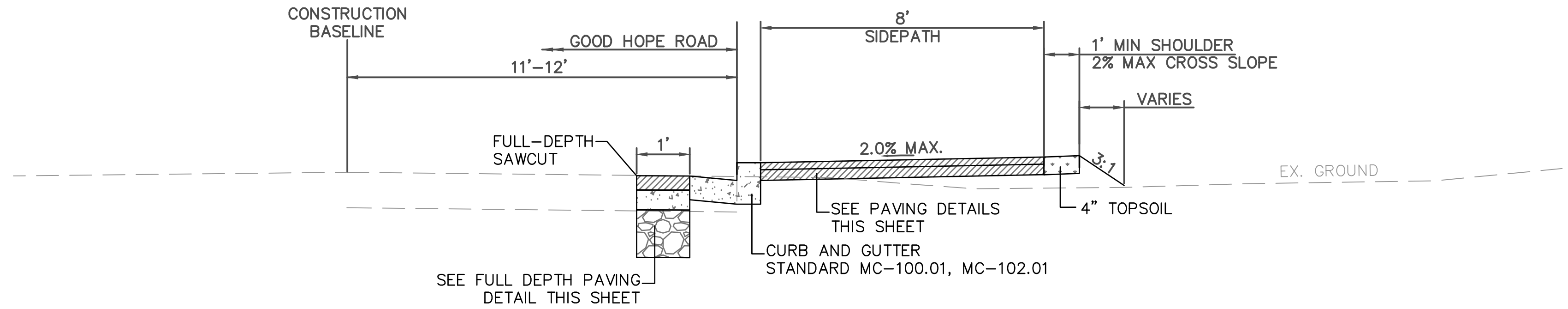
PERVIOUS PAVEMENT DETAIL  
NTS



FULL DEPTH PAVEMENT DETAIL-  
GOOD HOPE ROAD  
NTS



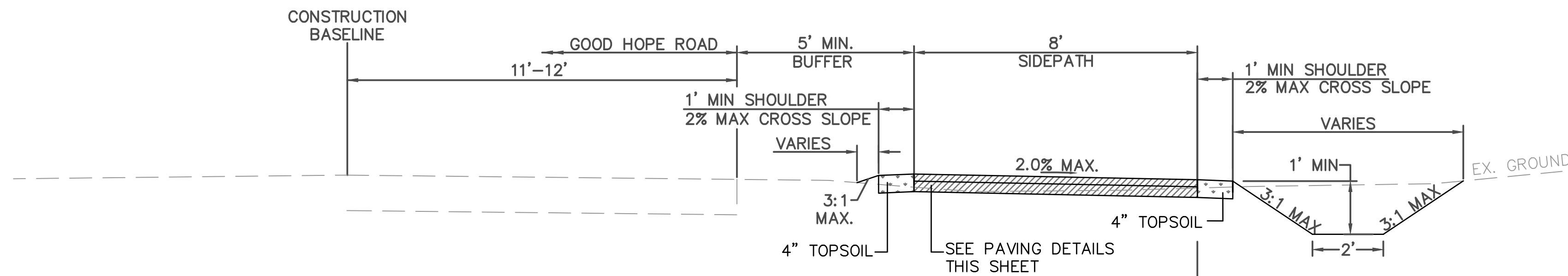
IMPERVIOUS PAVEMENT DETAIL-  
DRIVEWAYS  
NTS



CLOSED SECTION; EAST SIDE

IMPERVIOUS TRAIL (CONCRETE); MC-110.01  
STA. 0+88.00 TO STA. 1+06.00  
STA. 13+12.00 TO STA. 13+28.42  
STA. 13+86.00 TO STA. 14+26.00

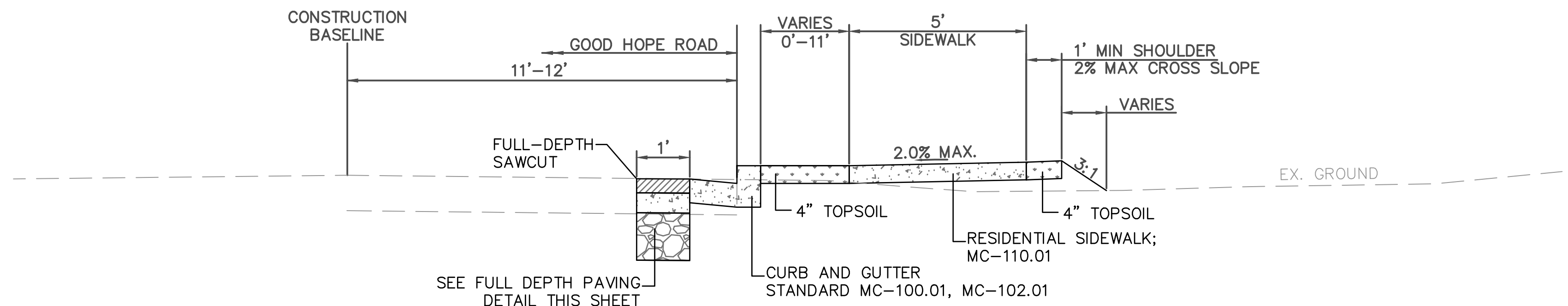
IMPERVIOUS TRAIL (ASPHALT)  
STA. 1+06.00 TO STA. 1+61.00  
STA. 11+46.00 TO STA. 13+12.00



BUFFERED OPEN SECTION; EAST SIDE

IMPERVIOUS TRAIL (ASPHALT)  
STA. 1+61.00 TO STA. 11+46.00

1' MIN SHOULDER  
2% MAX CROSS SLOPE  
VARIES  
1' MIN  
3:1 MAX  
2'-  
EX. GROUND  
4" TOPSOIL  
STA. 1+61.00 TO STA. 2+23.00



BUFFERED SIDEWALK; EAST SIDE  
STA. 0+23.00 TO STA. 0+42.00

THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING  
M-NCPPC PERMIT NO. 2020-034  
PARK J33  
REVIEWED BY: Brian Lewandowski  
APPROVED BY: [Signature]  
CHIEF, CONSTRUCTION SECTION  
DATE APPROVED 12/14/2021  
**THIS IS NOT A PERMIT TO  
BEGIN CONSTRUCTION**  
This approval is for technical review only.  
For permit information, contact Jay Childs,  
Construction Supervisor at (301) 495-2574



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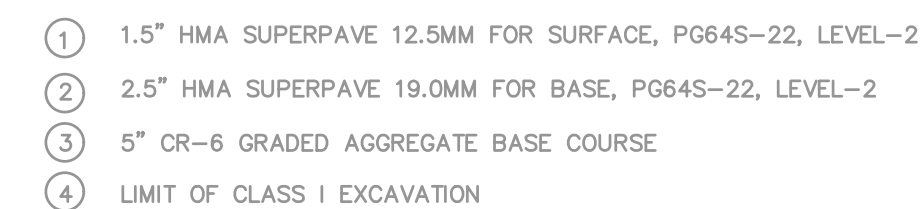
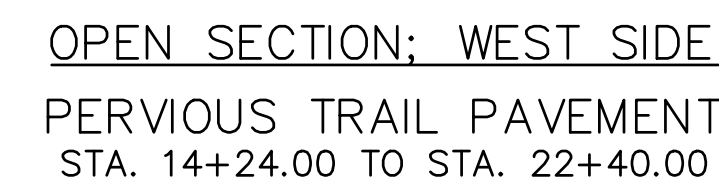
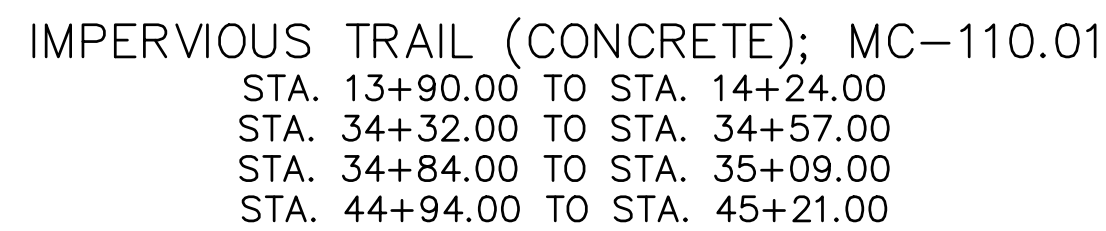
TS-01  
TYPICAL SECTIONS  
**GOOD HOPE ROAD  
SHARED USE PATH**

DATUM: NAD 83(2011) HORIZ  
NAVD 88 VERT  
DATE: DECEMBER 2021

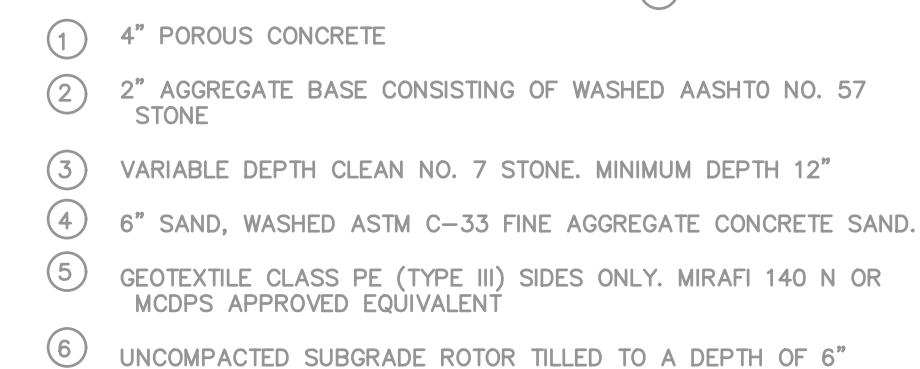
Project No. : 501902 SHEET 04 of 135



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Construction Supervisor at (301) 495-2574



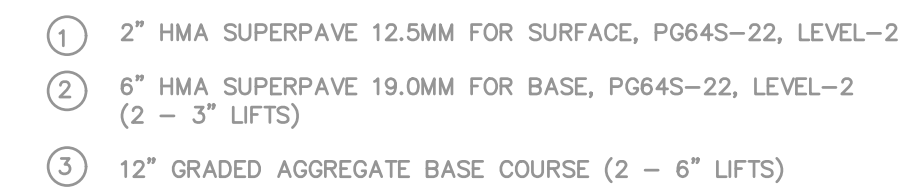
IMPERVIOUS TRAIL (ASPHALT) DETAIL



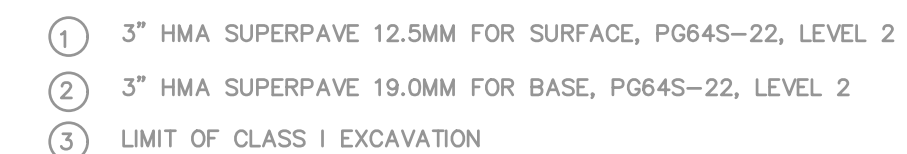
PERVIOUS PAVEMENT DETAIL

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NTS



FULL DEPTH PAVEMENT DETAIL—  
GOOD HOPE ROAD  
NTS



IMPERVIOUS PAVEMENT DETAIL—  
DRIVEWAYS

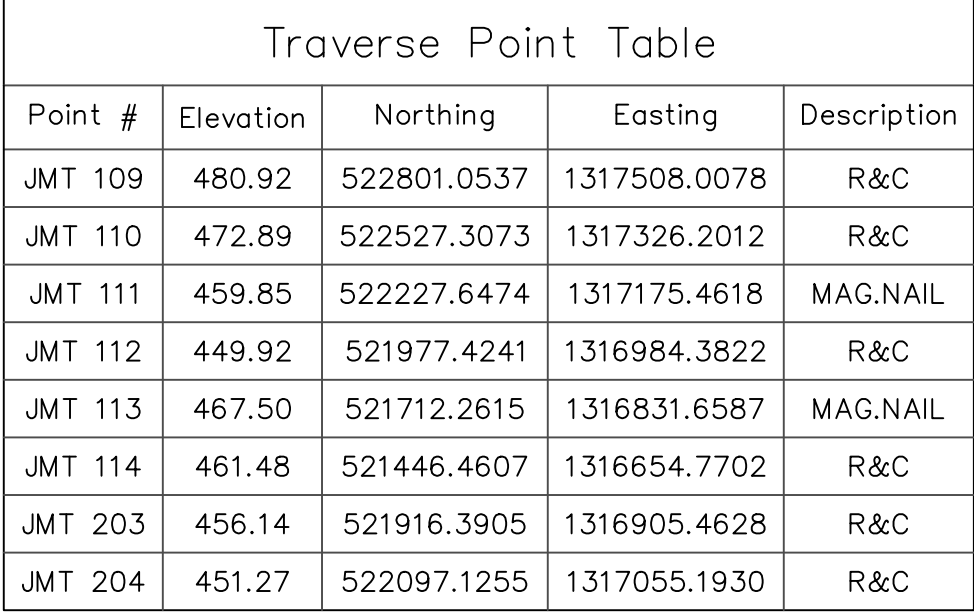
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NTS



					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	TS-02 TYPICAL SECTIONS					
					RECOMMENDED FOR APPROVAL						
					REFER TO TITLE SHEET FOR SIGNATURES						
					Chief, Design Section						Date
					APPROVED						
					REFER TO TITLE SHEET FOR SIGNATURES						
					Chief, Division of Transportation Engineering						Date
NO.	REVISION		DATE	BY	Designed by: ADH	Drawn by: MED	Checked by: JUR	Project No.: 501902			SHEET 05 of 135

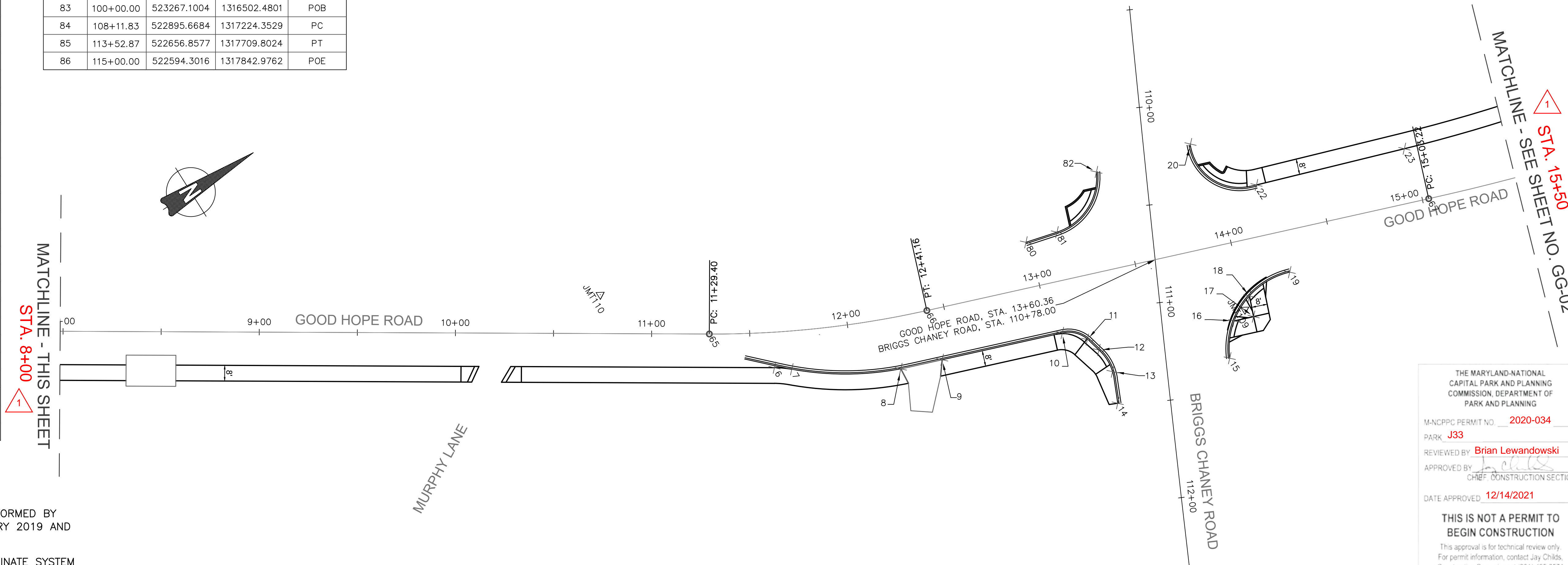




Point #	Station	Northing	Easting	Description
60	0+00.00	521607.9744	1316771.0881	POB
61	0+59.05	521658.0784	1316802.3306	PC
62	1+02.55	521695.3057	1316824.8467	PT
63	2+17.04	521794.0600	1316882.7570	PC
64	2+35.57	521809.8717	1316892.4273	PT
65	11+29.40	522563.6165	1317372.8321	PC
66	12+41.16	522663.7686	1317421.9136	PT
67	15+03.22	522910.4846	1317510.2721	PC

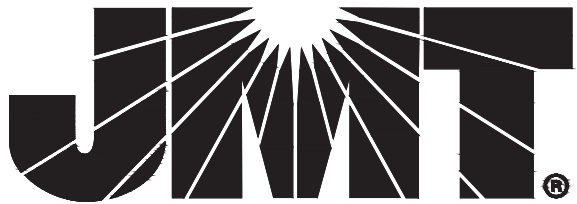
Point Table						
Point #	Station	Offset	Elevation	Northing	Easting	Description
1	0+33.09	19.89	MATCH EX	521625.5289	1316805.4707	POB
2	0+42.44	27.20	MATCH EX	521629.5934	1316816.6237	POE
3	0+89.91	27.54	467.11	521670.3071	1316842.0550	POB
4	1+07.67	17.82	467.10	521690.7032	1316842.8095	PT
5	1+61.00	28.86	465.73	521738.3426	1316866.9970	PI
6	11+61.55	14.59	477.34	522582.5578	1317405.0638	PC
7	11+69.97	18.07	477.90	522589.5684	1317410.4602	PCC
8	12+22.72	19.49	480.31	522636.6888	1317439.9425	PT
9	12+43.33	26.46	480.59	522656.9858	1317447.2821	POE
10	13+06.08	26.17	481.26	522716.0611	1317468.4392	PC
11	13+17.78	32.23	481.30	522725.0353	1317478.0897	PT
12	13+22.36	38.70	481.29	522727.1601	1317485.7284	PC
13	13+26.75	50.98	481.25	522727.1601	1317498.7691	PT
14	13+25.85	67.27	481.21	522720.8141	1317513.7976	POE
15	13+86.56	57.28	480.63	522781.3362	1317524.8655	POB
16	13+92.90	39.23	481.01	522793.3964	1317510.0057	POC
17	14+03.04	39.23	481.42	522802.9392	1317513.4269	PI
18	14+03.24	28.49	481.09	522806.7534	1317503.3876	POC
19	14+25.93	21.13	481.09	522830.5952	1317504.1070	POE
20	13+90.85	-56.38	MATCH EX	522822.6839	1317421.8948	PC
22	14+19.08	-25.93	481.07	522840.0093	1317457.4946	PT
23	14+96.67	-27.55	480.46	522913.6020	1317482.1269	PC
80	12+98.03	-22.96	481.15	522725.0497	1317419.4717	POB
81	13+14.58	-24.56	481.31	522741.1708	1317423.5494	PC
82	13+40.87	-50.14	482.52	522774.5477	1317408.3292	PT


Baseline Point Table				
Point #	Station	Northing	Easting	Description
83	100+00.00	523267.1004	1316502.4801	POB
84	108+11.83	522895.6584	1317224.3529	PC
85	113+52.87	522656.8677	1317709.8024	PT
86	115+00.00	522594.3016	1317842.9762	POE



### GENERAL NOTES

1. THIS SURVEY WAS BASED ON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY JOHNSON, MIRMAN & THOMPSON (JMT) IN DECEMBER 2018 & JANUARY 2019 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
2. COORDINATES ARE REFERENCED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83(2011) ZONE 1900 EPOCH 2010 AS DETERMINED BY MULTIPLE GPS RTN (KEYNET) OBSERVATIONS ON SEPTEMBER 29, 2018.
3. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88)(GEOID 12B) AS DETERMINED BY MULTIPLE GPS RTN (KEYNET) OBSERVATIONS ON SEPTEMBER 29, 2018.
4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE DIGITAL VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.
5. WINDMILL LANE: ADDITIONAL TOPOGRAPHIC SURVEY PERFORMED BY JMT ON FEBRUARY 22, 2019 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

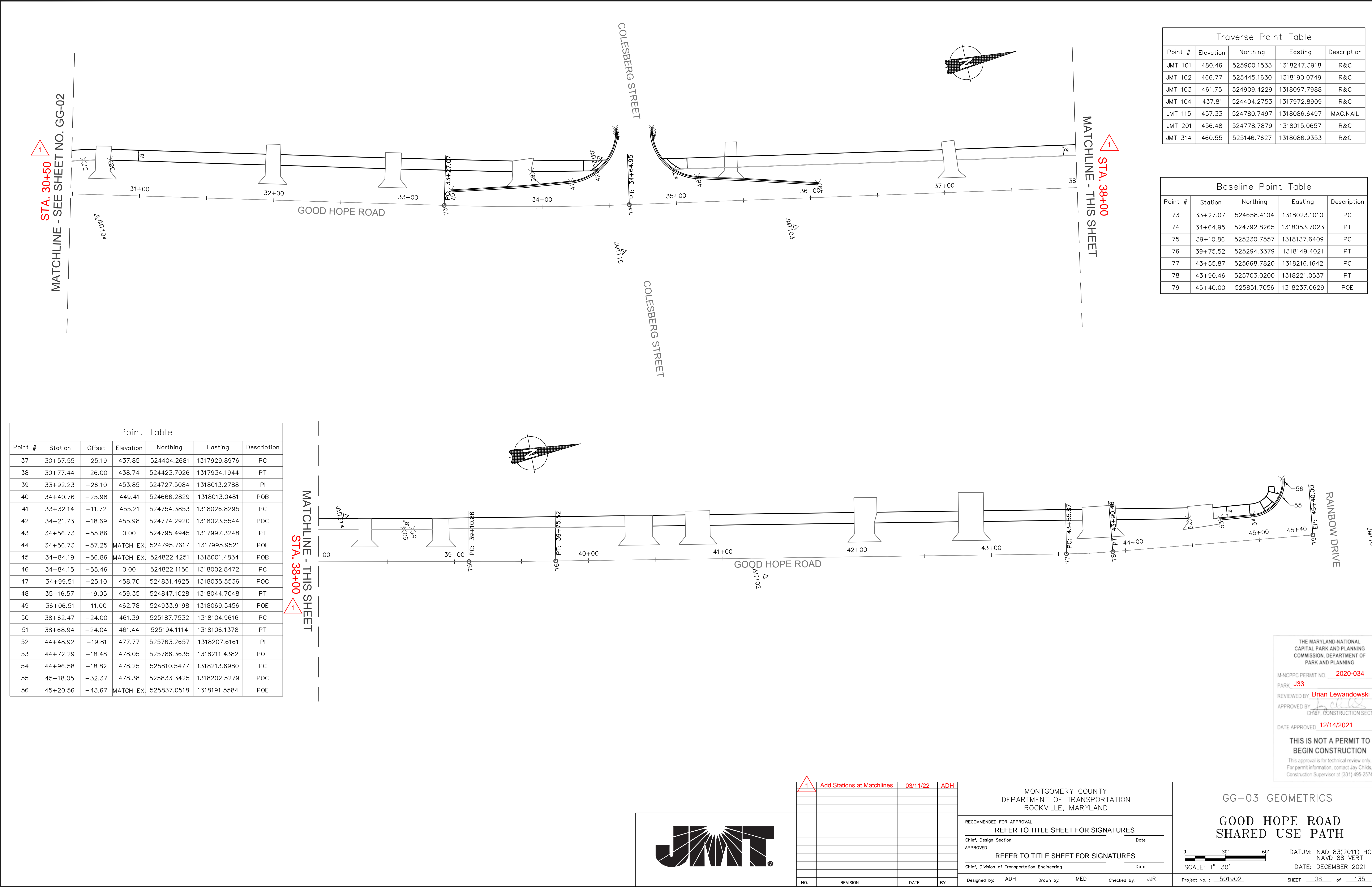


<div style="border: 1px solid black; padding: 2px; text-align: center;">1</div>	Add Stations at Matchlines		03/11/22	ADH	<div style="text-align: center;"> <p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND</p> <hr/> <p>RECOMMENDED FOR APPROVAL</p> <p style="text-align: center;"><b>REFER TO TITLE SHEET FOR SIGNATURES</b></p> <hr/> <p>Chief, Design Section <span style="float: right;">Date</span></p> <p>APPROVED</p> <hr/> <p style="text-align: center;"><b>REFER TO TITLE SHEET FOR SIGNATURES</b></p> <hr/> <p>Chief, Division of Transportation Engineering <span style="float: right;">Date</span></p> <hr/> <p>Designed by: <u>ADH</u>    Drawn by: <u>MED</u>    Checked by: <u>JJR</u></p> </div>
NO.	REVISION	DATE	BY		<div style="text-align: center;"> <p>GG-01 GEOMETRICS</p> <p style="font-size: 1.5em; font-weight: bold;">GOOD HOPE ROAD SHARED USE PATH</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>SCALE: 1"=30'</p> </div> <div style="text-align: left;"> <p>DATUM: NAD 83(2011) HORIZ NAVD 88 VERT</p> <p>DATE: DECEMBER 2021</p> </div> </div> <p>Project No. : <u>501902</u>      SHEET <u>06</u> of <u>135</u></p> </div>

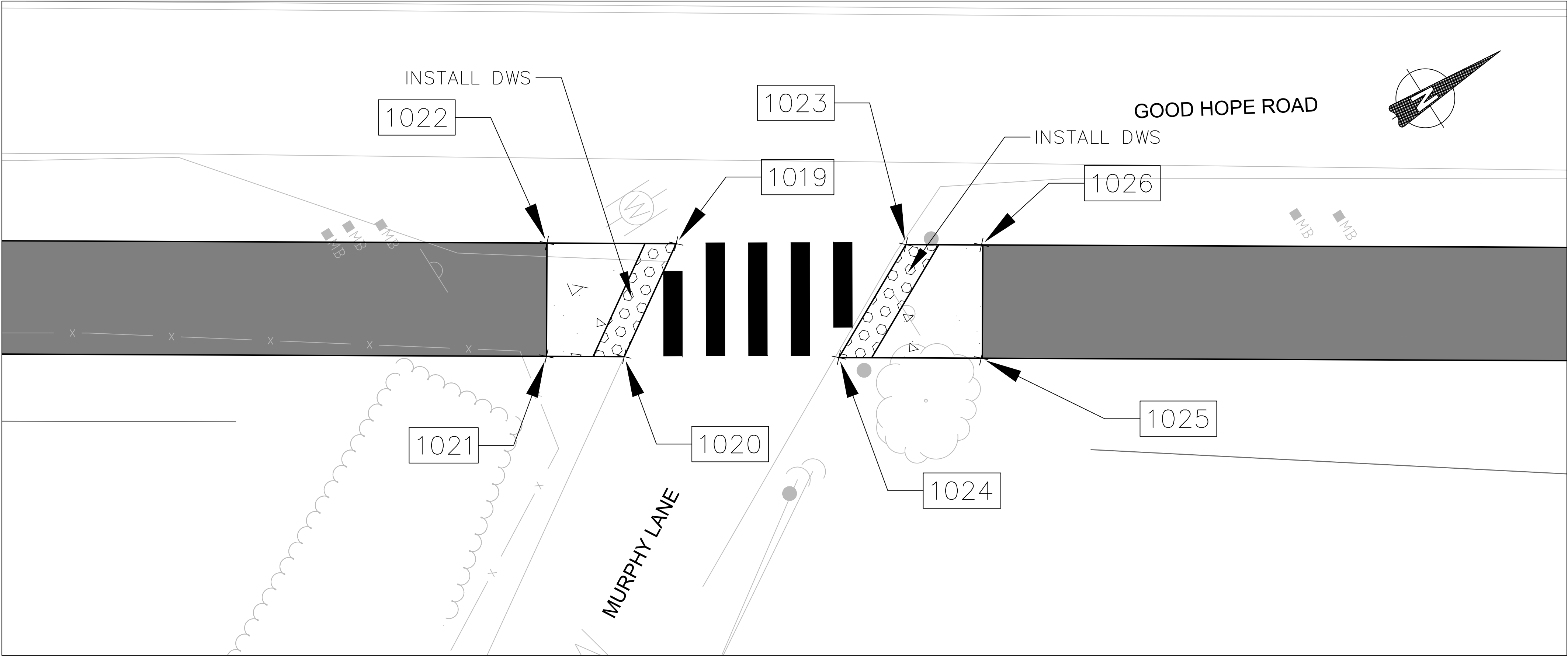
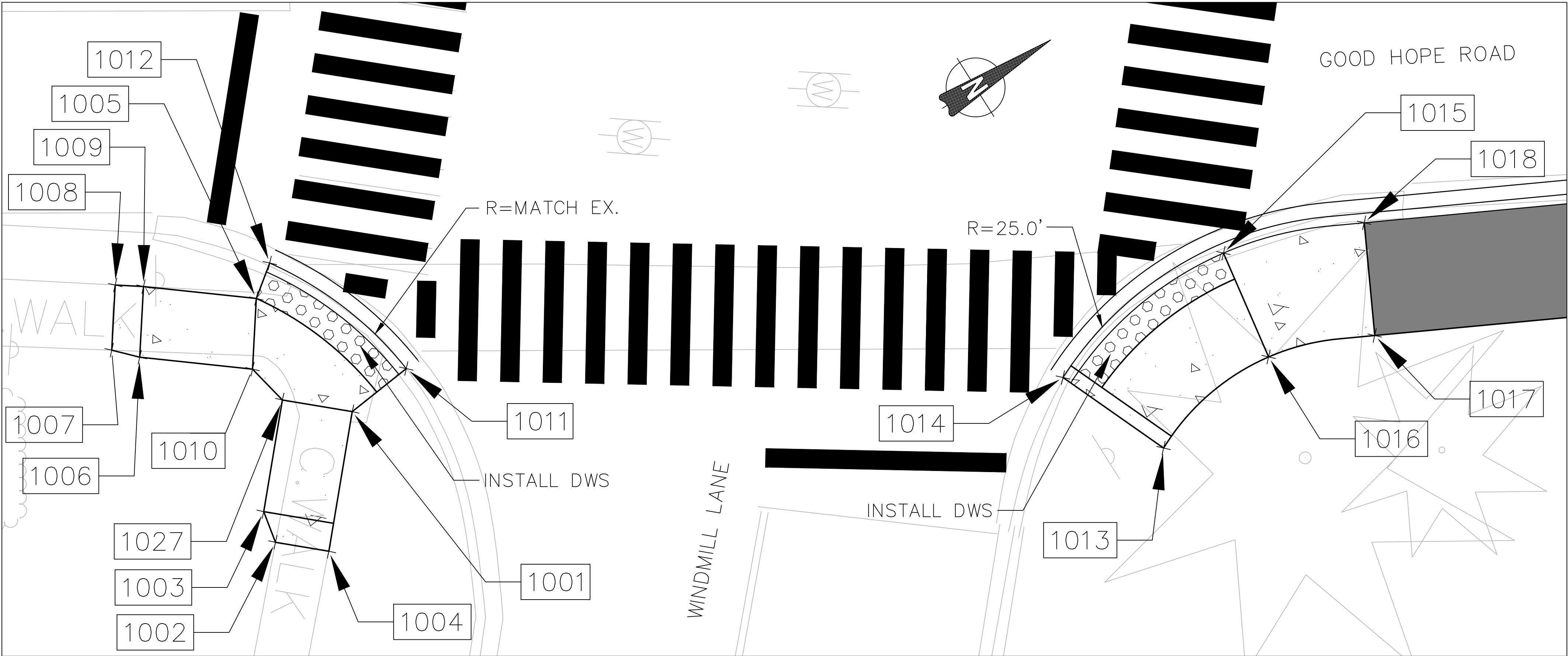












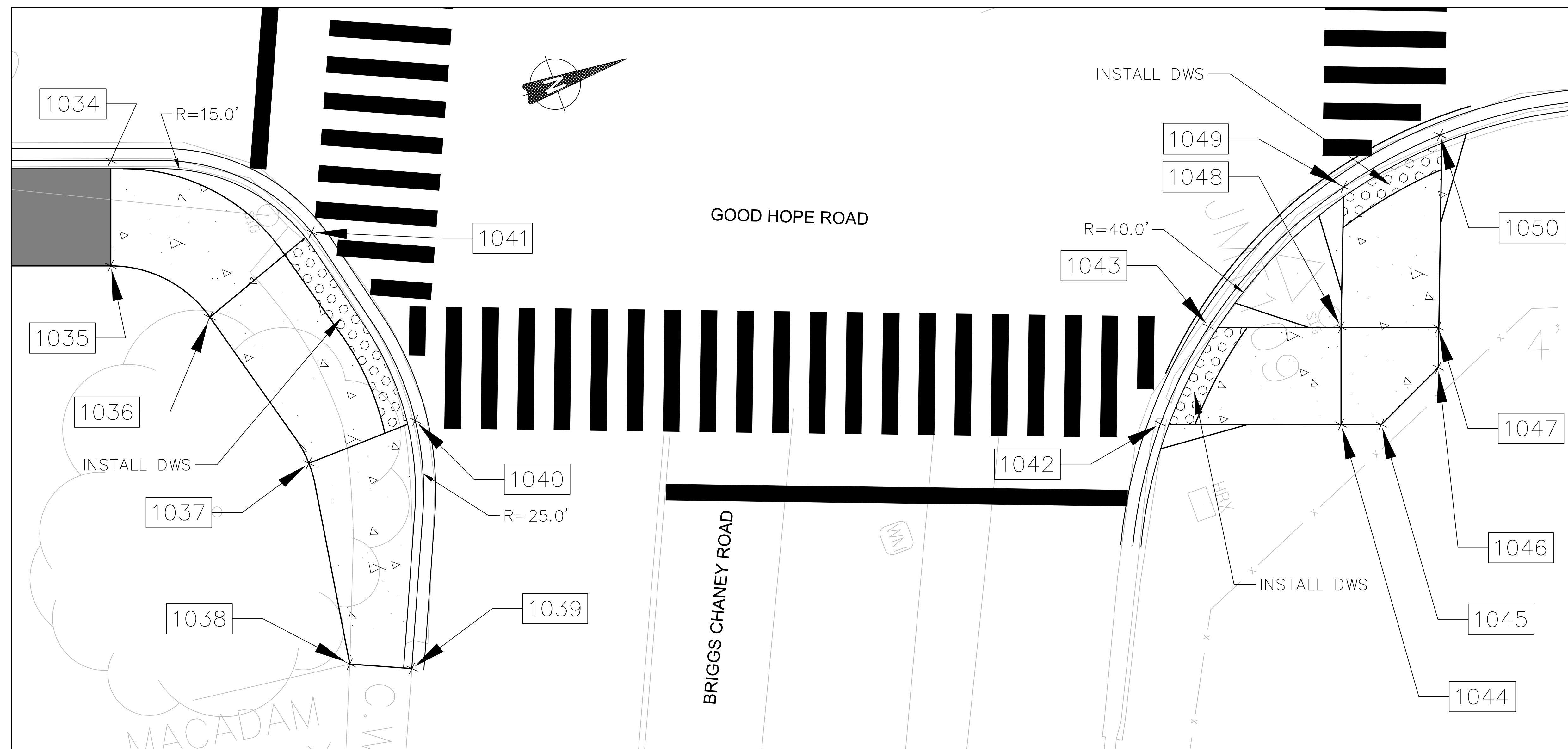
Point Table				
Point #	Northing	Easting	Elevation	Description
1001	521625.4072	1316817.0846	466.04	Level Landing
1002	521615.8958	1316821.9989	Match Existing	
1003	521616.3497	1316819.7232	466.19	
1004	521618.7480	1316824.5448	Match Existing	
1005	521623.9491	1316806.7071	466.05	Level Landing
1006	521614.7733	1316805.8212	465.76	
1007	521613.3674	1316804.3459	Match Existing	
1008	521616.0311	1316800.5849	Match Existing	
1009	521617.6632	1316801.7409	465.93	
1010	521621.0593	1316810.7873	466.12	Level Landing
1011	521630.2593	1316816.5504	Match Existing	
1012	521626.0859	1316805.0983	Match Existing	
1013	521672.4810	1316849.8502	466.55	Level Landing
1014	521669.1338	1316841.8408	Match Existing	Level Landing
1015	521683.4114	1316840.4600	466.54	Level Landing
1016	521682.1873	1316848.3658	466.70	Level Landing
1017	521689.3334	1316851.0861	467.25	
1018	521692.9551	1316843.9528	467.09	
1019	522455.5157	1317324.0926	Match Existing	
1020	522448.1521	1317328.8861	Match Existing	
1021	522443.5213	1317325.9346	469.24	
1022	522447.8211	1317319.1883	469.40	
1023	522469.2007	1317332.8148	Match Existing	
1024	522460.9340	1317337.0327	Match Existing	
1025	522469.4108	1317342.4355	470.37	
1026	522473.6980	1317335.6812	470.53	
1027	521621.6771	1316813.7550	466.07	

THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034  
PARK J33  
REVIEWED BY Brian Lewandowski  
APPROVED BY J. Childs  
CHIEF, CONSTRUCTION SECTION  
DATE APPROVED 12/14/2021

THIS IS NOT A PERMIT TO  
BEGIN CONSTRUCTION  
This approval is for technical review only.  
For permit information, contact Jay Childs,  
Construction Supervisor at (301) 495-2574






Point Table				
Point #	Northing	Easting	Elevation	Description
1028	522832.4140	1317441.7331	481.50	Level Landing
1029	522839.5380	1317448.5059	481.28	Level Landing
1030	522847.0109	1317451.4086	481.19	
1031	522844.4196	1317458.9775	481.03	
1032	522835.1255	1317456.3437	480.65	Level Landing
1033	522819.5594	1317433.3187	481.66	Level Landing
1034	522712.1923	1317466.3420	480.73	
1035	522709.2690	1317474.5043	481.39	
1036	522715.5316	1317481.2388	480.98	Level Landing
1037	522719.1471	1317495.2999	481.43	Level Landing
1038	522716.7490	1317512.0022	Match Existing	
1039	522721.4374	1317514.0729	Match Existing	
1040	522728.5739	1317494.9485	Match Existing	Level Landing
1041	522725.7762	1317477.4770	Match Existing	Level Landing
1042	522786.2732	1317515.8814	Match Existing	
1043	522792.6991	1317509.6950	Match Existing	
1044	522800.2394	1317520.9575	481.33	Level Landing
1045	522803.3587	1317522.0758	481.38	Level Landing
1046	522809.3516	1317519.2460	481.48	Level Landing
1047	522810.4699	1317516.1267	481.43	Level Landing
1048	522802.9392	1317513.4269	481.42	Level Landing
1049	522807.0524	1317502.6114	Match Existing	
1050	522815.9454	1317501.2712	Match Existing	
1082	522825.4245	1317435.4192	481.68	
1083	522748.7300	1317425.1126	481.40	Level Landing
1084	522752.1512	1317415.5601	481.58	Level Landing
1085	522764.0175	1317413.4270	482.00	Level Landing
1086	522770.2312	1317415.6524	481.90	Level Landing

THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK **J33**

REVIEWED BY **Brian Lewandowski**

APPROVED BY 

CHEF, CONSTRUCTION SECTION

DATE APPROVED **12/14/2021**

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Construction Supervisor at (301) 495-2574







THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

M-NCPPC PERMIT NO. 2020-034

PARK: J33

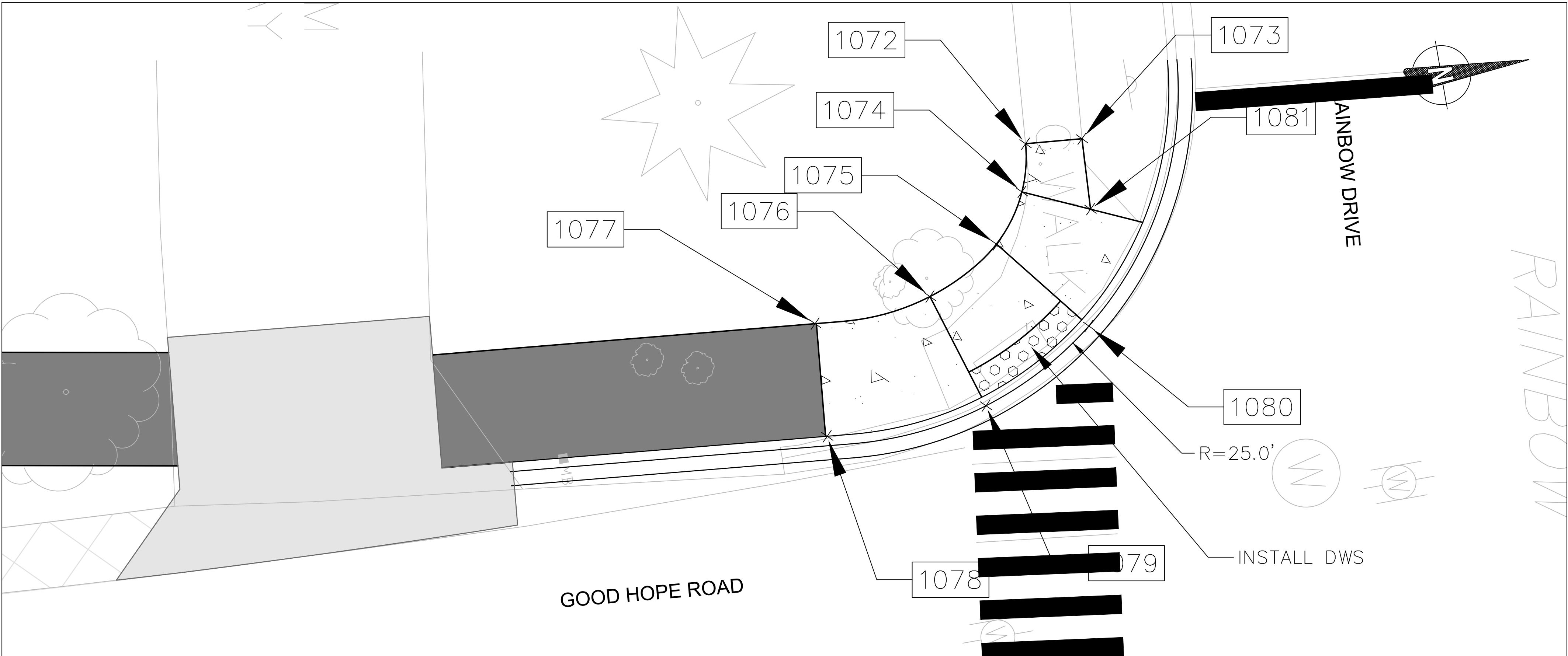
REVIEWED BY: Brian Lewandowski

APPROVED BY: [Signature]  
CHIEF, CONSTRUCTION SECTION

DATE APPROVED: 12/14/2021

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Construction Supervisor at (301) 495-2574



Point Table				
Point #	Northing	Easting	Elevation	Description
1072	525826.1619	1318195.6133	Match Existing	
1073	525830.1491	1318195.9581	Match Existing	
1074	525825.3150	1318198.9220	478.79	
1075	525822.9443	1318202.2794	478.72	Level Landing
1076	525817.6353	1318205.0748	478.62	Level Landing
1077	525809.3159	1318205.5481	478.50	
1078	525808.7725	1318213.5321	478.35	
1079	525820.1932	1318213.3588	Match Existing	Level Landing
1080	525828.3261	1318209.0768	Match Existing	Level Landing
1081	525829.8760	1318200.9707	478.71	



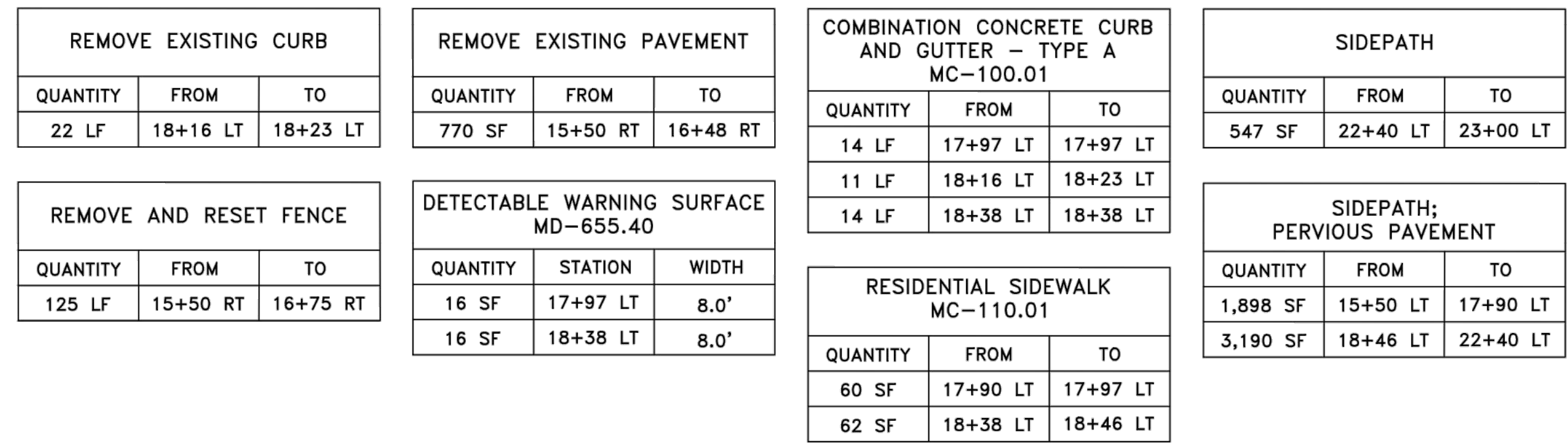













REMOVE EXISTING PAVEMENT		
QUANTITY	FROM	TO
244 SF	8+32 RT	8+58 RT
388 SF	12+33 LT	13+00 LT
885 SF	14+26 RT	15+50 RT



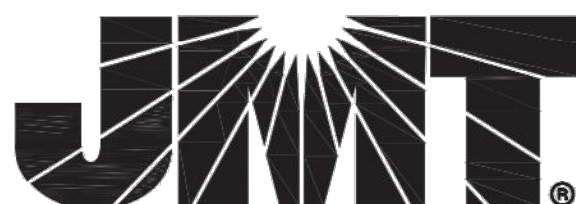
This approval is for technical review only.  
For permit information, contact Jay Childs,  
Construction Supervisor at (360) 495-2571.



### LEGEND

— LDD	LIMIT OF DISTURBANCE		PROPOSED ASPHALT PATH/TRAIL—IMPERVIOUS
—	PROPOSED PAVEMENT MARKINGS		PROPOSED ASPHALT PAVEMENT
— TPF	TREE PROTECTION FENCE		PROPOSED PERVIOUS PAVEMENT
— TCE	TEMPORARY CONSTRUCTION EASEMENT		PROPOSED CONCRETE SIDEWALK
— PE	PERPETUAL EASEMENT		PROPOSED RIP—RAP SLOPE STABILIZATION
	PROPOSED VEGETATED RIP—RAP		PROPOSED RIP—RAP SLOPE STABILIZATION
	PROPOSED STORMWATER MANAGEMENT FACILITY		PROPOSED PAVEMENT REMOVAL

NOTES:  
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.  
2. REFER TO LANDSCAPE PLANS FOR PROPOSED TREE REMOVALS AND PLANTINGS.

[illegible]

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
REFER TO TITLE SHEET FOR SIGNATURES		
Chief, Design Section	Date	
APPROVED		
REFER TO TITLE SHEET FOR SIGNATURES		
Chief, Division of Transportation Engineering	Date	
Designed by: <u>ADH</u>	Drawn by: <u>MED</u>	Checked by: <u>JJR</u>

GOOD HOPE ROAD  
SHARED USE PATH



Project No. : 501902 SHEET 15 of 135



THE MARYLAND-NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

M-NDPPG PERMIT NO. 2020-034

PARK J33

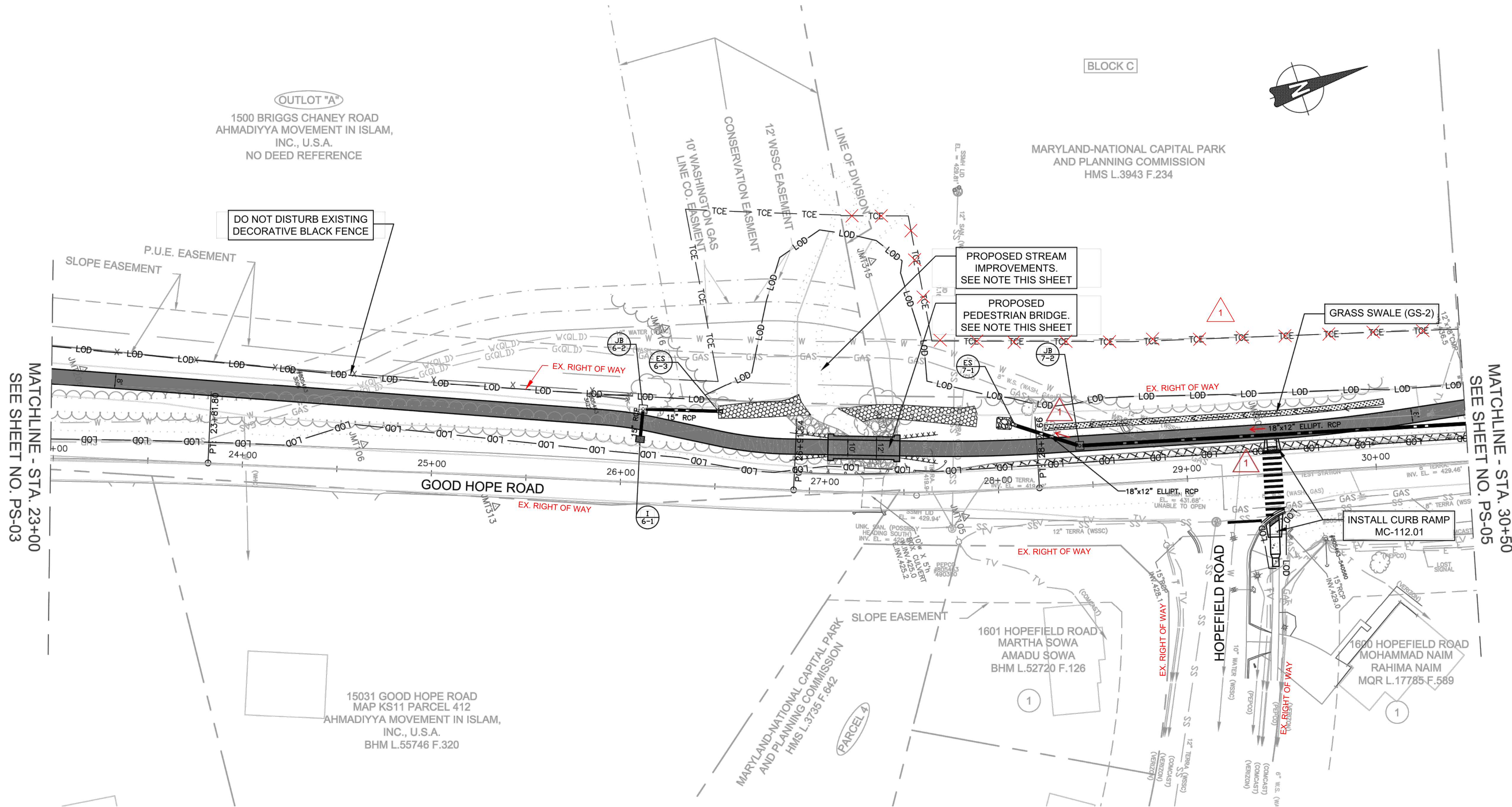
REVIEWED BY Brian Lewandowski

APPROVED BY  
CHIEF, CONSTRUCTION SECTION

DATE APPROVED 12/14/2021

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BEGIN CONSTRUCTION

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For permit information, contact Jay Childs,  
Construction Supervisor at (301) 495-2574.



COMBINATION CONCRETE CURB AND GUTTER - TYPE A MC-100.01			
QUANTITY	FROM	TO	
14 LF	29+35 RT	29+50 RT	

REMOVE EXISTING PAVEMENT			
QUANTITY	FROM	TO	
933 SF	27+74 LT	30+50 LT	

PREFABRICATED PEDESTRIAN BRIDGE			
QUANTITY	FROM	TO	
480 SF	27+09 LT	27+49 LT	

SIDEPATH			
QUANTITY	FROM	TO	
3,287 SF	23+00 LT	26+87 LT	
2,405 SF	27+67 LT	30+50 LT	

DETECTABLE WARNING SURFACE MD-655.40			
QUANTITY	STATION	WIDTH	
16 SF	29+42 LT	8.0'	
16 SF	29+42 RT	8.0'	

RESIDENTIAL SIDEWALK MC-110.01			
QUANTITY	FROM	TO	
48 SF	29+35 LT	29+50 LT	
148 SF	29+35 RT	29+50 RT	

CHAIN LINK FENCE			
QUANTITY	FROM	TO	
40 LF	26+89 LT	27+09 LT	
40 LF	27+49 LT	27+69 LT	

**LEGEND**

— LOD —

— PROPOSED PAVEMENT MARKINGS

— TPF —

— TCE —

— PE —

PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PAVEMENT

PROPOSED ASPHALT PAVEMENT

PROPOSED PERVIOUS PAVEMENT

PROPOSED CONCRETE SIDEWALK

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED PAVEMENT REMOVAL

NOTES:  
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.  
2. REFER TO STREAM IMPROVEMENT SHEETS FOR DETAILS OF PROPOSED STREAM WORK.  
3. REFER TO STRUCTURAL PLAN SHEETS FOR DETAILS OF PEDESTRIAN BRIDGE.  
4. REFER TO LANDSCAPE PLANS FOR PROPOSED TREE REMOVALS AND PLANTINGS.  
5. PEDESTRIAN BRIDGE INSTALLATION WORK MUST REMAIN MINIMUM 10 FEET FROM ANY LIVE OVERHEAD WIRES. COORDINATION WITH PEPCO MAY BE REQUIRED FOR A PLANNED OUTAGE DURING THE PEDESTRIAN BRIDGE INSTALLATION. OUTAGES WILL ONLY BE PERMITTED IN SPRING OR FALL.

1	Add Flow Direction on Elliptical Pipe	03/11/22	ADH
	Revise Easement Lines	03/11/22	ADH

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL  
REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section  
APPROVED

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering

Designed by: ADH Drawn by: MED Checked by: JJR

PS-04 ROADWAY PLAN

GOOD HOPE ROAD  
SHARED USE PATH

SCALE: 1"=30'

DATUM: NAD 83(2011) HORIZ  
NAVD 88 VERT  
DATE: DECEMBER 2021

Project No.: 501902 SHEET 16 of 135



THE MARYLAND NATIONAL  
CAPITAL PARK AND PLANNING  
COMMISSION, DEPARTMENT OF  
PARK AND PLANNING

MANEPPP PERMIT NO. 2020-034

PARK J33

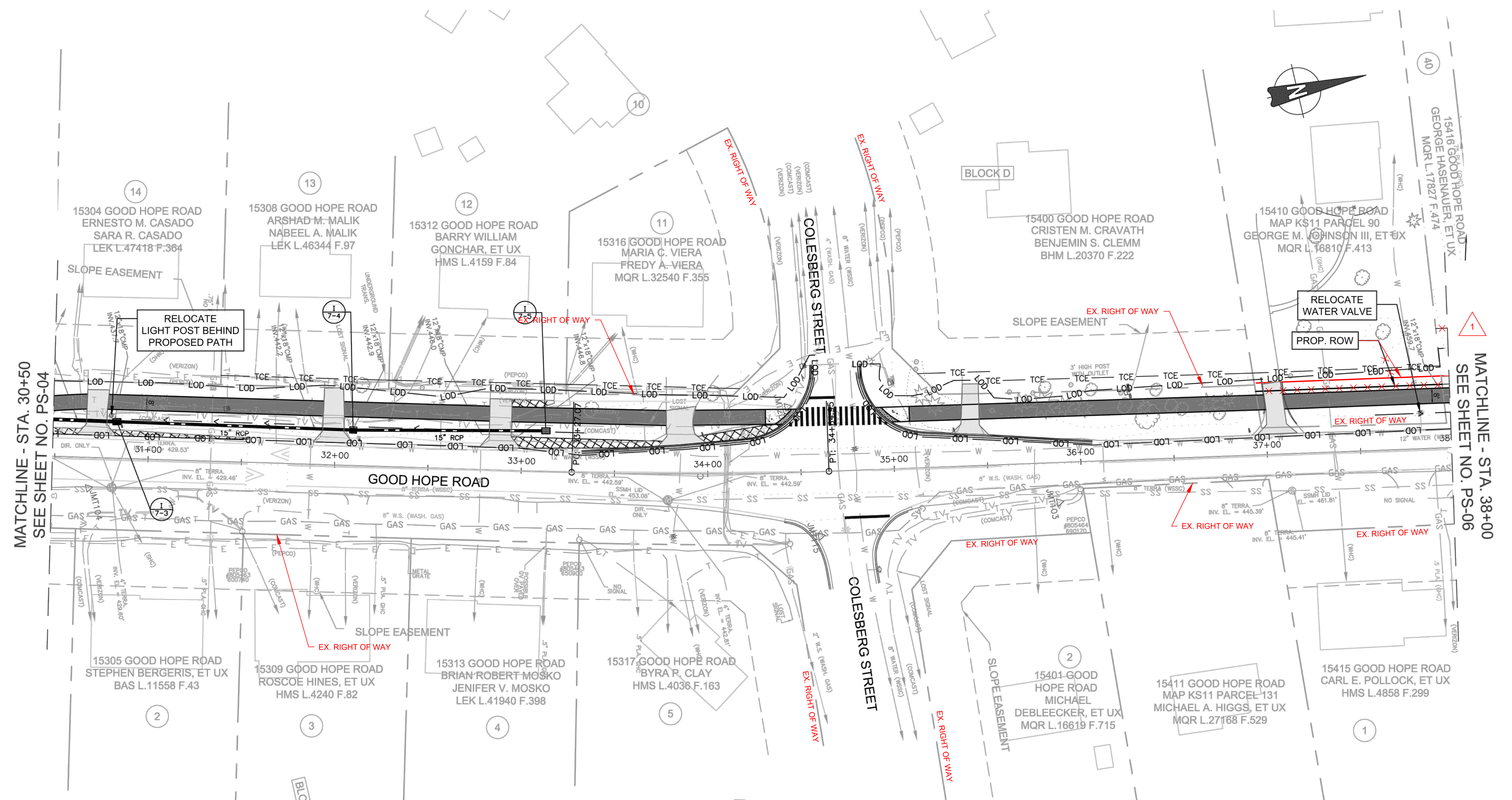
REVIEWED BY Brian Lewandowski

APPROVED BY [Signature]

DATE APPROVED 12/14/2021

THIS IS NOT A PERMIT TO  
BEGIN CONSTRUCTION

This approval is for technical review only.  
For permit information, contact Jay Childs,  
Construction Supervisor at (301) 459-2373.



REMOVE AND RELOCATE MAILBOX*	
QUANTITY	STATION
1 EA	30+85 LT
1 EA	32+15 LT
1 EA	33+05 LT
1 EA	33+95 LT
1 EA	35+30 LT
1 EA	36+90 LT

\*INCIDENTAL TO CLEARING AND GRUBBING

SIDEPATH			
QUANTITY	FROM	TO	
134 SF	30+50 LT	30+66 LT	
923 SF	30+77 LT	31+93 LT	
625 SF	32+05 LT	32+82 LT	
664 SF	32+94 LT	33+77 LT	
308 SF	33+92 LT	34+47 LT	
224 SF	34+91 LT	35+36 LT	
1,227 SF	35+47 LT	36+99 LT	
724 SF	37+13 LT	38+00 LT	

RESIDENTIAL DRIVEWAY MC - 301.01			
QUANTITY	STATION	WIDTH	
33 SY	30+72 LT	11.0'	
39 SY	32+00 LT	12.0'	
38 SY	32+88 LT	12.0'	
35 SY	33+85 LT	15.0'	
30 SY	35+40 LT	11.0'	
33 SY	37+05 LT	14.0'	

DETECTABLE WARNING SURFACE MD-655.40			
QUANTITY	STATION	WIDTH	
16 SF	34+49 LT	8.0'	
16 SF	34+91 LT	8.0'	

RESIDENTIAL SIDEWALK MC-110.01			
QUANTITY	FROM	TO	
108 SF	34+31 LT	34+49 LT	
114 SF	34+91 LT	35+09 LT	

REMOVE EXISTING PAVEMENT			
QUANTITY	FROM	TO	
197 SF	30+50 LT	31+50 LT	
637 SF	32+94 LT	34+40 LT	

COMBINATION CONCRETE CURB AND GUTTER - TYPE A MC-100.01			
QUANTITY	FROM	TO	
147 LF	33+32 LT	34+57 LT	
147 LF	34+84 LT	36+06 LT	

— LOD —

— TPF —

— TCE —

— PE —

— LIMIT OF DISTURBANCE

— TREE PROTECTION FENCE

— TEMPORARY CONSTRUCTION EASEMENT

— PERPETUAL EASEMENT

PROPOSED VEGETATED RIP-RAP

PROPOSED STORMWATER MANAGEMENT FACILITY

PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS

PROPOSED ASPHALT PAVEMENT

PROPOSED PERVIOUS PAVEMENT

PROPOSED CONCRETE SIDEWALK

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED PAVEMENT REMOVAL

NOTES:  
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.  
2. REFER TO LANDSCAPE PLANS FOR PROPOSED TREE REMOVALS AND PLANTINGS.



1

Revise Easement Lines

05/02/22

ADH

NO.

REVISION

DATE

BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Design Section

APPROVED

REFER TO TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering

Designed by: ADH

Drawn by: MED

Checked by: JUR

PS-05 ROADWAY PLAN

GOOD HOPE ROAD  
SHARED USE PATH

0 30' 60'

SCALE: 1"=30'

DATUM: NAD 83(2011) HORIZ  
NAVD 88 VERT

DATE: DECEMBER 2021

Project No. : 501902

SHEET 17 of 135

FILE NAME: Q:\2013\130605\_007\_Good\_Hope\_Road\_Sidewalk\CAD\p040\_GoodHope.dwg LAYOUT NAME: PS-05 PLOTTED: Wednesday, December 08, 2021 - 3:43pm USER: AHavener



COMBINATION CONCRETE CURB AND GUTTER – TYPE A MC-100.01		
QUANTITY	FROM	TO
65 LF	44+72 LT	45+21 LT

NOTES:  
1. PLAN SHEET IS ENTIRELY WITHIN UPPER PAINT BRANCH SPECIAL PROTECTION AREA.  
2. REFER TO LANDSCAPE PLANS FOR PROPOSED TREE REMOVALS AND PLANTINGS.



# PS-06 ROADWAY PLAN

## GOOD HOPE ROAD SHARED USE PATH